

IN THE CLAIMS:

1. (Currently Amended) A banknote condition detection device for a banknote storing unit, comprising:

a banknote receiving unit;

a banknote storing unit for being removably positioned within [[a]] the banknote
5 receiving unit, the banknote storing unit receives a banknote from the banknote receiving unit, the received banknote being pushed by a cam driven pusher of a moving unit within the banknote storing unit for storing the received banknote within the banknote storing unit;

a plurality of optical guide units for translating received light having a light projecting surface and a [[left]] light receiving surface, the light projection surface and the light
10 receiving surface of each optical guide unit being positioned [[at]] on a surface of the banknote storing unit adjacent the banknote receiving unit when the banknote storing unit is mounted in the banknote receiving unit; and

a plurality of optical emitter-receiver pair units disposed within the banknote receiving unit and operatively associated with the plurality of optical guide units, each optical
15 emitter-receiver pair unit includes a light emitting element and a light receiving element being disposed to send light to and receive light from a predetermined optical guide unit in the banknote storing unit.

2. (Original) The banknote condition detection device of Claim 1, each optical guide unit further comprising:

a detecting projecting surface disposed adjacent to a receiver section of a
corresponding optical emitter-receiver pair unit for sending light to the receiver section of the
5 emitter-receiver pair unit; and

a detecting receiving surface disposed adjacent to an emitter section of the
corresponding optical emitter-receiver pair unit for receiving light from the emitter section of the
emitter-receiver pair unit.

3. (Previously Presented) The banknote condition detection device of Claim 1,

wherein a predetermined optical guide unit and a predetermined optical emitter-
receiver pair unit comprise a position detecting unit including a position detecting optical guide
unit and a position detecting emitter-receiver pair unit, the position detecting unit further
5 comprising:

a detecting projecting surface on the position detecting optical guide unit for
emitting a light beam received from an emitter section of the position detecting emitter-receiver
pair unit; and

10 a reflector member for reflecting the light beam from the detecting projecting
surface, the reflector member being disposed adjacent to a banknote moving passageway
opposite from the position detecting optical guide unit.

4.-5. (Cancelled)

6. (Currently Amended) The banknote condition detection device of Claim 2,

wherein a predetermined optical guide unit and a predetermined optical emitter-
receiver pair unit comprise a storing amount detecting unit including a storing amount optical

guide unit and a storing amount emitter-receiver pair unit, the storing amount optical guide unit

5 further comprising:

a detecting projecting surface; and

a detecting receiving surface for facing the detecting projecting surface whereby a full amount position of the stored banknotes in the storing unit can be determined when light is blocked between the detecting projecting surface and the detecting viewing surface.

7. (Original) The banknote condition detection device of Claim 1,
wherein the plurality of optical guide units include an optical resin.

8. (Original) The banknote condition detection device of Claim 7,
wherein the optical resin is an acrylate resin.

9. (Currently Amended) The banknote condition detection device of Claim 2,
wherein the optical guide unit includes a ~~first column~~ projecting optical guide and
a ~~second column~~ receiving optical guide, a ~~first end of the first column~~ projecting optical guide
includes a first reflecting surface, a ~~first end of the second column~~ receiving optical guide
5 includes a second reflecting surface, the first reflecting surface facing the second reflecting
surface,

wherein a side surface of the ~~first column~~ projecting optical guide includes the
detecting projecting surface while a side surface of the ~~second column~~ receiving optical guide
includes the detecting receiving surface,

10 wherein the optical guide unit includes a light receiving surface on the second end
of the ~~first column~~ projecting optical guide on the end of the ~~first column~~ projecting optical guide
opposite to the first reflecting surface of the ~~first column~~ projecting optical guide, the optical

guide unit includes a light projecting surface on the second end of the ~~second column~~ receiving optical guide on the end of the ~~second column~~ receiving optical guide opposite to the second
15 reflecting surface of the ~~second column~~ receiving optical guide.

10. (Previously Presented) The banknote condition detection device of Claim 1,
wherein for each of the optical guiding units, the receiving surface and the
projecting surface is flush with the surface of the storing unit.

11. (Previously Presented) The banknote condition detection device of Claim 1, each
optical emitter-receiver pair unit further comprising:

wherein the emitter of the emitter-receiver pair units further comprises:

a first cylinder having a first end and a second end, the first end of the first
5 cylinder for retaining the light emitting element so that the light emitting element projects light
into the first cylinder from the first end to the second end, and

wherein the receiver of the emitter-receiver pair units further comprises:

a second cylinder having a first end and a second end, the first end of the second
cylinder for retaining the light detecting element so that the light detecting element detects a
10 portion of light admitted into the second cylinder from the second end to the first end.

12.-13. (Cancelled)

14. (Original) A optical detecting system for optically detecting conditions within an
enclosed unit inserted into receiving unit, comprising:

a receiving unit having a plurality of optical emitter-receiver pair units for
emitting and receiving light; and

5 an enclosed unit for being removably inserted into the receiving unit, the enclosed
unit having a plurality of optical guide units for receiving, reflecting, and projecting light from
the plurality of optical emitter-receiver pair units, the plurality of emitter-receiver pair units
being aligned with the plurality of optical guiding units when the enclosed unit is inserted within
the receiving unit, the presence or absence of light being reflected from a predetermined optical
10 guide unit indicating a predetermined condition.

15.-16. (Cancelled)

17. (Original) A optical detecting method for optically detecting conditions within an
enclosed unit inserted into receiving unit, comprising:

transmitting a beam of light from a receiving unit towards an enclosed unit to
produce a transmitted beam of light;

5 receiving the transmitted beam of light within the enclosed unit to produce a
received beam of light;

reflecting the received light beam to produce a reflected beam of light;

projecting the reflected light beam out of the enclosed unit towards the receiving
unit to produce a projected beam of light; and

10 detecting the projected beam of light to indicate a predetermined condition.

18. (Original) The optical detecting method of Claim 17,
wherein detecting the projected beam of light indicates a true condition.

19. (Previously Presented) The optical detecting method of Claim 17, further
comprising:

interrupting the transmitted beam of light and the projected beam of light to indicate the condition that an object is disposed between the enclosed unit and the receiving unit.

20. (Original) The optical detecting method of Claim 17, further comprising:

interrupting the reflected light beam of light to indicate the condition that an object is disposed at a predetermined position within the enclosed unit.

21. (Cancelled)

22. (Previously Presented) A banknote position detecting device for a banknote handling apparatus wherein a banknote translates to various locations in the banknote handling apparatus and is stored in a banknote storing unit comprising:

a projecting and receiving unit including a light emitting element and
5 photo-detection element including a light projecting section and a light receiving section positioned adjacent to each other on the banknote handling apparatus; and

an optical guide assembly operatively positioned opposite to the light emitting element and the photo-detection element to receive light from the projecting and receiving unit and to transmit the received light back to the light receiving section whereby the return of the
10 light indicates a first condition and the absence of the return of light indicates a second condition for the banknote position detecting device.

23. (Cancelled)

24. (Currently Amended) The banknote position detecting device of Claim 22 wherein the projecting and receiving unit includes a pair of cylinders, a first cylinder mounting at

one end of the light emitting element and a second cylinder mounting at one end of the photo-detection element.

25. (Previously Presented) The banknote position detecting device of Claim 24 wherein the optical guide assembly includes a first reflecting surface and a second reflecting surface offset from each other and respectively aligned with the light projecting section and the light receiving section of the projecting and receiving unit.

26. (Currently Amended) The banknote position detecting device of Claim 25 wherein a ~~unitary~~ reflecting light transmitting member provides the first reflecting surface and the second reflecting surface is mounted on a surface of the banknote storing unit.

27. (Previously Presented) The banknote position detecting device of Claim 26 wherein the optical guide assembly further includes an optical emitting and receiving guide position between the projecting and receiving unit and the reflecting light transmitting member.

28. (Currently Amended) The banknote position detecting device of Claim 26 where the reflecting light transmitting member is a solid plastic optical guide with the first and second reflecting surfaces formed internally on walls of the optical guide.

29. (Previously Presented) The banknote position detecting device of Claim 24 wherein the first and second cylinders are integral as one piece.

30. (New) A condition detecting unit of a banknote storing unit comprising:

a banknote storing unit (16) which can be detachable to a banknote receiving unit (10) which receives a banknote which is pushed by a pusher (76) of a moving unit (50), wherein the moving unit (50) is built in the storing box and can store banknotes in a pile;

5 characterized by an optical guide (124, 164, 194, 234, 274), wherein light which passes through the optical guide is guided by the outer walls of the optical guide, the optical guide comprising a light receiving surface (130, 180, 214, 254, 294) and a light projecting surface (130, 180, 214, 254, 294), which are located at a surface (134) of the banknote storing unit (16); and

10 a receiving section (146, 170, 200, 240, 280), including a photo acceptance element (147, 171, 201, 241, 281) and a projecting section (144, 168, 198, 238, 278) including a light emitting element (145, 169, 199, 239, 279) which receiving section and projecting section are located at the banknote receiving unit (10).